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PHOTOGRAPHIC INTELLIGENCE REPORT

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SIMFEROPOL SPACE TRACKING

DECLASS REVIEW by NIMA/DOD

AND

COMMUNICATION CENTER, USSR

CIA/PIR 61108

DATE April 1966  
COPY 39  
PAGES 11

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APPROVAL DATE(S) STOCK MINIMUM  
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## SIMFEROPOL SPACE TRACKING AND COMMUNICATION CENTER, USSR



FIG-1 SIMFEROPOL SPACE TRACKING AND COMMUNICATIONS CENTER, USSR

The Simferopol Space Tracking and Communication Center is located on the Crimean Peninsula at 45-03N 033-53E, eleven nautical miles northwest of the city of Simferopol (Figure 1).

The Center has undergone considerable expansion since it was first observed on photography and currently its capabilities for space tracking and telemetry collection are being substantially increased. When initially observed on [ ] photography in [ ] only a portion of the Center was visible due to scattered clouds and haze. For this reason, the chronological development of the Center was established from analysis of [ ] photography. In addition, ground photography was employed to the fullest possible extent to fill in details not discernible on the satellite coverage.

The first [ ] photography of the Center was in [ ]. It was of generally poor quality, however it is adequate as a base for the chronological development of the Center.

In this study, the chronological history of the facility has been divided into three periods of time using [ ] missions. The following four missions exhibit the greatest amount of change in the installation and provide the best photographic quality for each time period.

For the sake of clarity, the Center has been analyzed by section, as designated on the four line drawings (Figures 3-6). Each section reflects changes or additions detected on the three up-dating missions.

The sections, and the order in which they appear in the text, are as follows:

1. Radio Telescope Site
2. PLIM FLAM Station
3. Microwave Facility
4. High Frequency Communications Facility
5. Center Support Area
6. Probable Satellite Telemetry Collection Site
7. Interferometer Site

All measurements have been made by the NPIC/Technical Intelligence Division and are considered to be accurate within  $\pm 5$  feet or  $\pm 5$  percent (whichever is greater) for horizontal, and  $\pm 5$  feet or  $\pm 10$  percent (whichever is greater) for vertical measurements. All measurements have been obtained from [ ]. The building and rhombic antenna measurements are reflected in Tables 1 and 2, respectively, and are keyed to numbers and letters appearing in Figures 3-6. All other measurements will be discussed in the text and/or indicated on the graphics.

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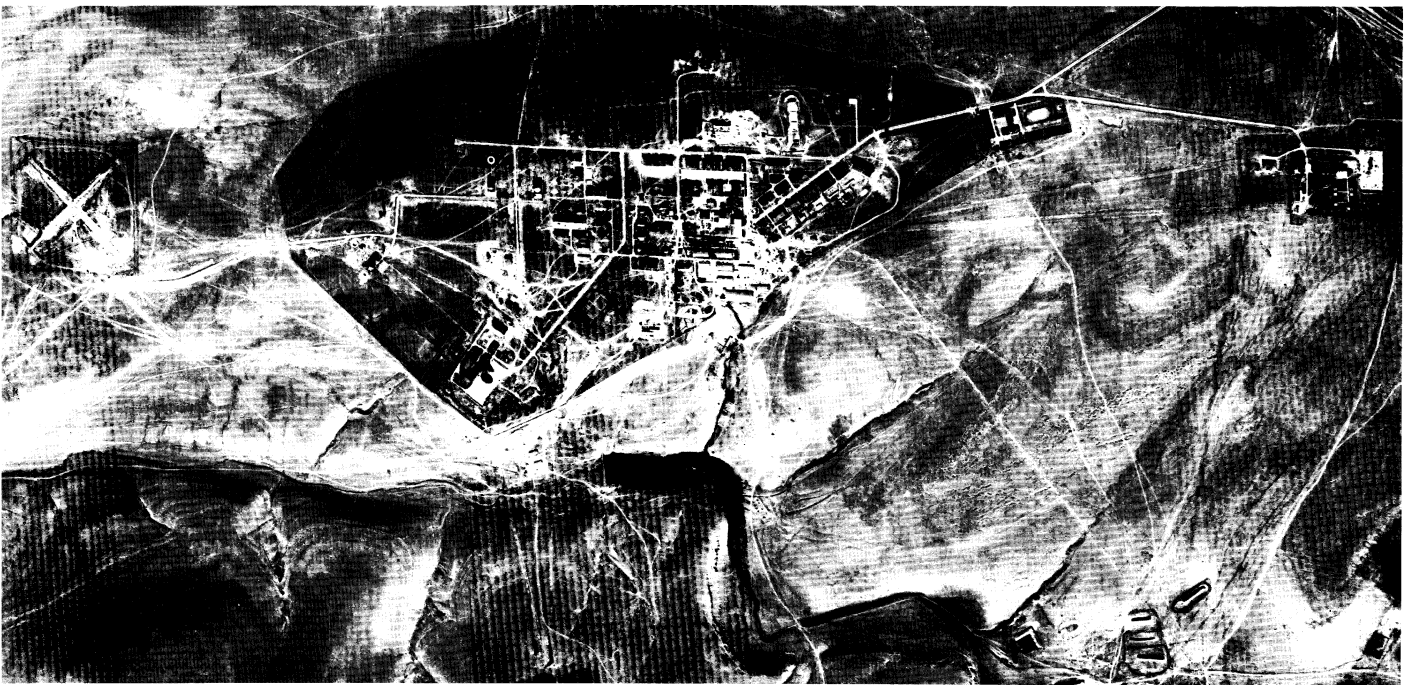


FIG-2 SIMFEROPOL SPACE TRACKING AND COMMUNICATIONS CENTER, USSR

## RADIO TELESCOPE SITE

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The Radio Telescope Site was observed on poor quality stereoscopic photography in [redacted]. At that time, activity was evident at the site but construction status could not be precisely determined. The entire site was under construction with a large control building and three smaller buildings present (Figure 3, Items 1, 2, 3, and 5). Also, an object was observed at the location of the radio telescope (Figure 3, Item A), but the subsequently identified 100-foot dish was not identifiable at this time. The poor quality of the photography precluded a more detailed description of the site.

[redacted] the site was again observed on poor quality stereoscopic photography. The four buildings, observed under construction in [redacted] were probably complete. In addition, the 100-foot dish appears to be complete or in a late stage of construction. Portions of the dish feed structure

are vaguely discernible. Also, a fifth support-type building is present on this coverage (Figure 4, Item 6). No other changes or additions are discernible due to poor image quality and the small scale of photography.

The Radio Telescope Site was covered by large scale, good quality [redacted] photography in [redacted]. The better ground resolution of this photography allows a more detailed description of previously reported components of the site, as well as those items newly identified (Figure 5). The 100-foot dish can clearly be seen in a stowed position with the feed mounted on a four-legged structure. A structural crane can be seen bracing the dish. Upon re-examination of the [redacted] photography, the outline of the crane can be seen on the concrete pad in the same position as on this coverage. Also, this coverage confirms that the five previously mentioned buildings in the area are externally completed and that one other support-type building has been constructed (Figure 5, Item 4).

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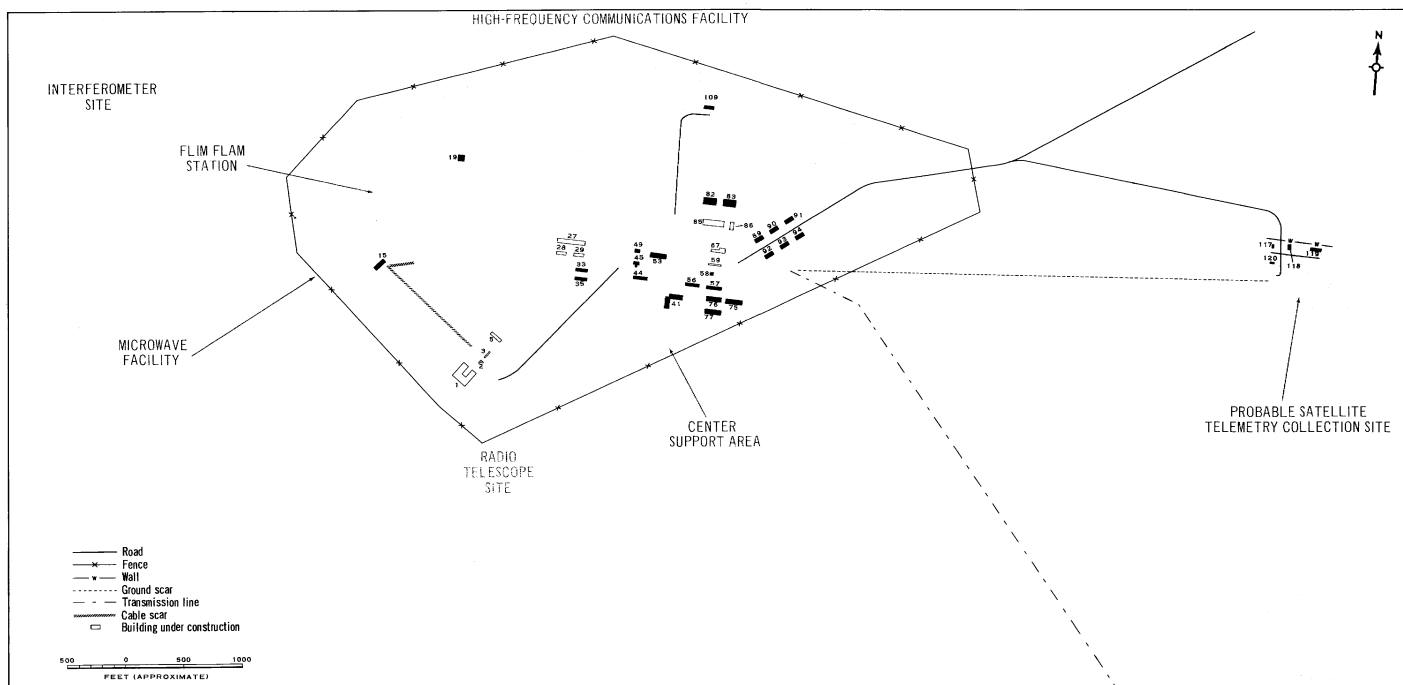


FIG-3 SIMFEROPOL SPACE TRACKING AND COMMUNICATIONS CENTER, USSR

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The entire Radio Telescope Site is separately secured within the overall Center security fencing. A guard house is at the entrance gate and three guard towers are positioned at or near the corners of the fence. Approximately six vehicles are observed within the fenced area on this mission. The site is connected by cable scar to the Microwave Facility and to the two calibration towers located to the south. At least seven small unidentified structures or pieces of equipment are located within the fenced area. Their small size precludes identification and they are not listed in Table 1 as permanent structures.

Photographic coverage obtained in [ ] revealed several minor changes since the [ ]. However, they are not portrayed on the line drawing (Figure 6) as they add nothing of significance to this chronology.

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These changes include the removal of the structural crane from the concrete pad at the radio telescope and the planting of trees and other vegetation. Overall, the entire site has a "cleaner" appearance, probably indicating the completion of major construction activities. Approximately eight vehicles/vans are observed at the site.

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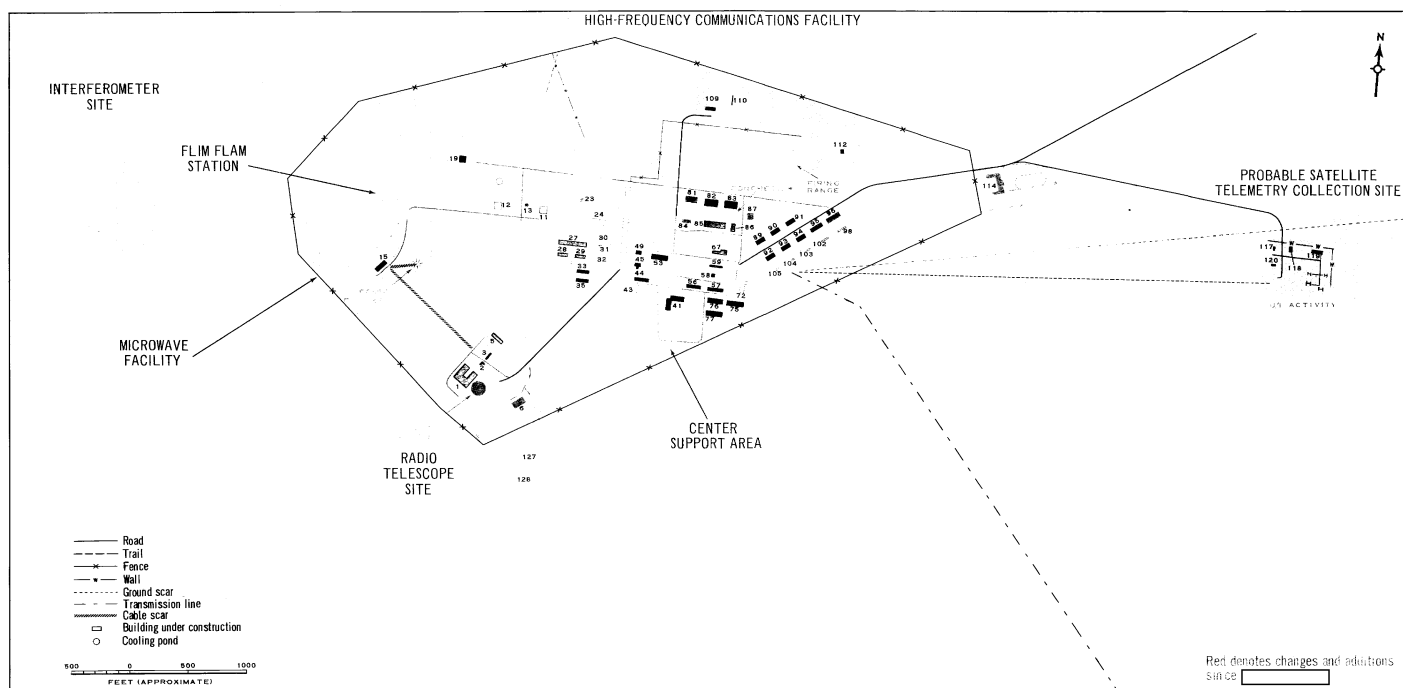


FIG-4 SIMFEROPOL SPACE TRACKING AND COMMUNICATIONS CENTER, USSR

## FLIM FLAM STATION

The FLIM FLAM, or near space tracking station, was definitely not present in [ ] but was not identifiable due to extremely poor photography and haze conditions. Two dark objects can be discerned at the location of the FLIM FLAM station, but construction status cannot be determined.

The first coverage used in this chronology is [ ] Again, haze and poor image quality were limiting factors, permitting only the identification of the two tracking buildings (Figure 4, Items 11 and 12). No antennas or environmental domes were discernible nor could construction status be determined.

Photography of [ ] provided an excellent image of the FLIM FLAM station. The station consisted mainly of two tracking buildings and one smaller

building (Figure 4, Items 11-13). It was evident that both tracking buildings were structurally complete, however, the antenna and radome on the easternmost building was not present. The westernmost building has a completed dome on it approximately 55 feet in diameter. This size dome normally houses a dish approximately 25 feet in diameter. A smaller building is located between the two tracking buildings and appears to be cable connected to each of the buildings. A construction crane is also located adjacent to the easternmost tracking building, indicating continuing construction activity at this location. A cooling pond is located immediately north of the westernmost tracking building, but there is no visible evidence to indicate a direct association with the FLIM FLAM station. In addition, a cable scar extends westward from the westernmost tracking building to a small control building. An unidentified object adjacent to the small building has subsequently been identified as a VHF/UHF whip antenna (Figure 5, Item 14). Two large vans and two smaller vehicles are parked on a hardstand near the tracking buildings.

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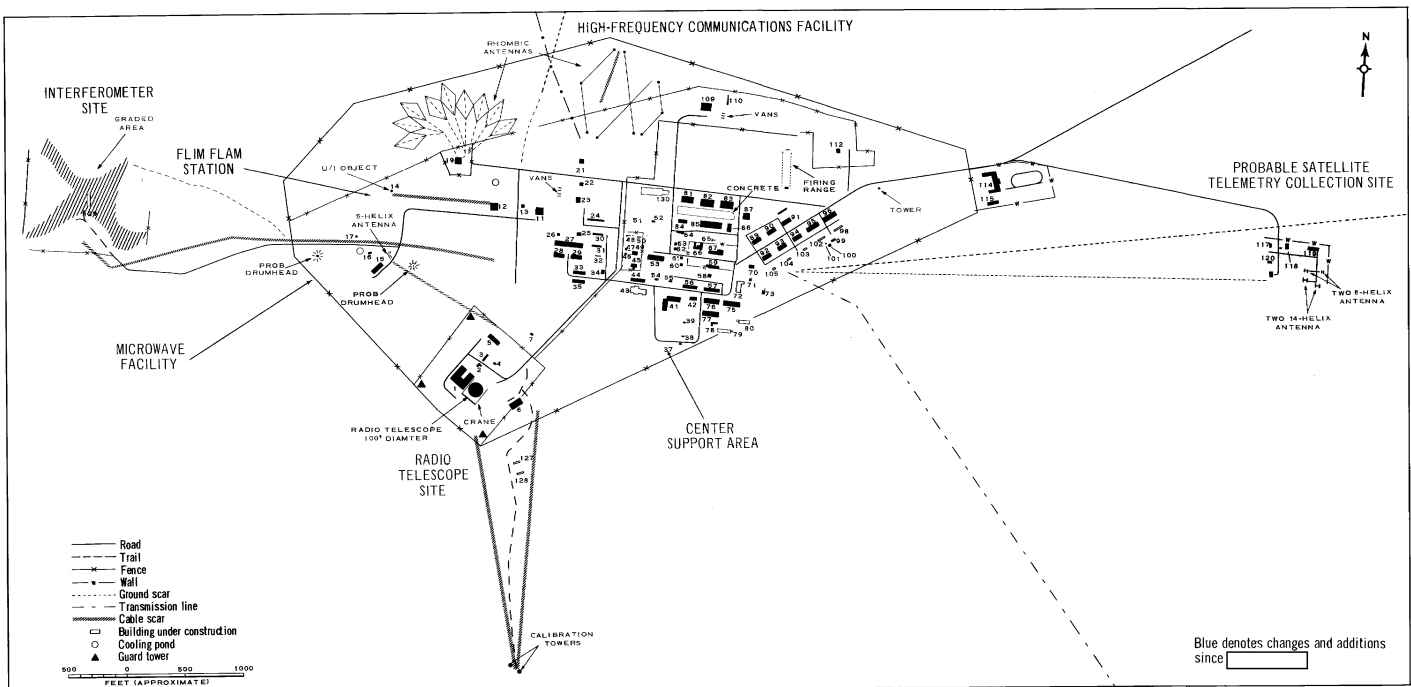


FIG-5 SIMFEROPOL SPACE TRACKING AND COMMUNICATIONS CENTER, USSR

The October 1965 coverage [redacted] reveals that the station is apparently complete (Figure 6). A 55-foot light-toned dome has been placed on top of the easternmost tracking building. The dome on the other tracking building is now dark in tone. Also,

the cooling pond is full and is connected by ground scar to the westernmost tracking building. Again, as at the Radio Telescope Site, trees have been planted around and between the tracking buildings.

#### MICROWAVE FACILITY

The Microwave Facility cannot be identified as such on [redacted]. One building is discernible and is connected by a ground scar to the Radio Telescope Site (Figure 3, Item 15). This is all that is interpretable on this mission due to the previously stated limiting factors of the photography.

Again, poor photographic quality limits interpretation.

By [redacted] numerous additions to the Microwave Facility were noted (Figure 5). The building observed on earlier photography is externally complete and is identified as a control building (Figure 5, Item 15).

In [redacted] there appears to be no change in the facility since

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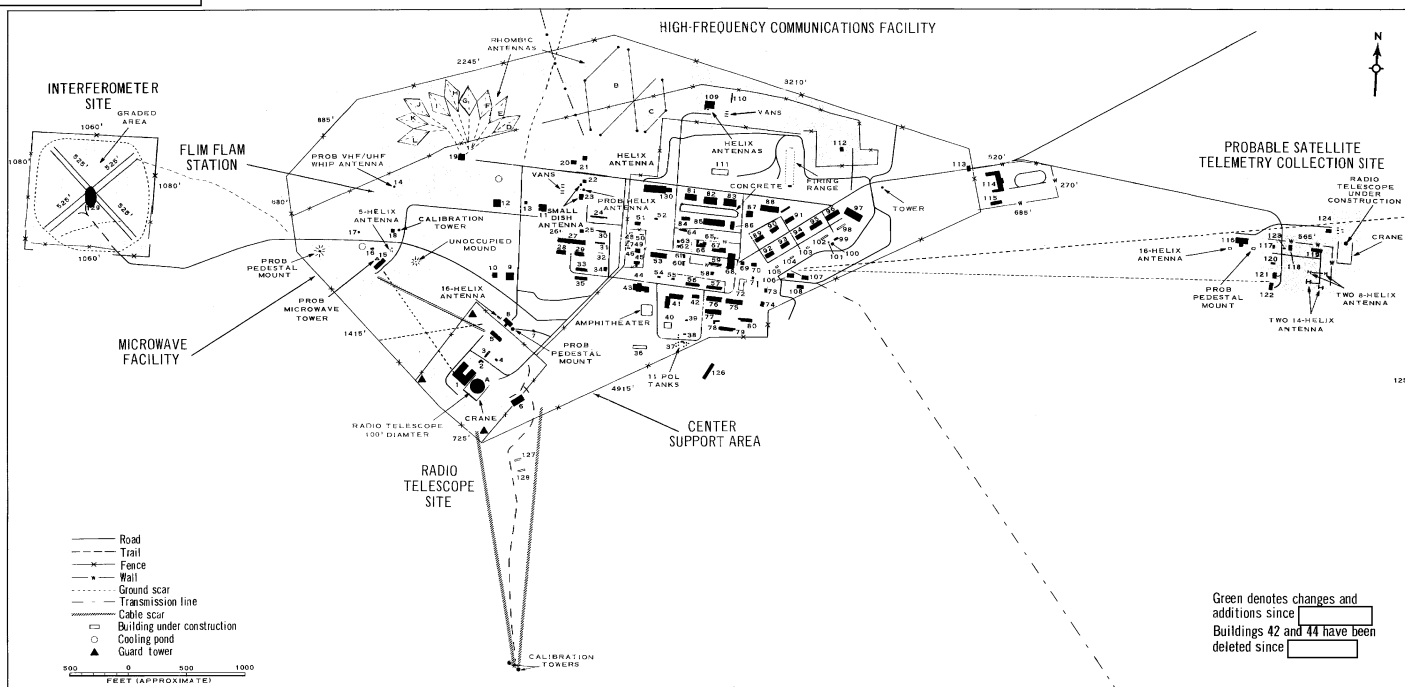


FIG-6 SIMFEROPOL SPACE TRACKING AND COMMUNICATIONS CENTER, USSR

The tower, identified as a microwave tower in a previous report (NPIC/R-293/64), is not a microwave tower but a five-helix telemetry collection array, mounted on a pedestal. This was determined from subsequent [redacted] photography used in conjunction with ground photography (Figure 7). At this time, [redacted] a microwave tower is not observed within this facility.

Two probable DRUM HEAD antennas are located east and west of the control building, oriented 240 degrees and [redacted] degrees respectively. These are parabolic reflectors, approximately 40 feet in width, elevated on earth mounds and can probably be rotated in both azimuth and elevation. Their identification as DRUM HEAD radar is based primarily on 1963 ground photography.

Also present are two small buildings (Figure 5, Items 16 and 17) and a partially filled cooling pond. A ground scar is visible, leading from the vicinity of the control building to the Radio Telescope Site.

In [redacted] the probable location of a microwave tower was

observed (Figure 6). However, the uncertainty of the precise location plus the inherent small size of the tower prevents a measurement of its height. The Microwave Tower is definitely visible on ground photography (Figure 7), with two small parabolic reflectors on top of the tower. Although reflector azimuths could not be precisely determined, their general orientation appears to be toward the Yevpatoriya Deep Space Tracking and Communications Center located approximately 28 nautical miles to the northwest. A calibration tower, 160 feet high, has been constructed north of the large control building. It is almost identical to one of the two calibration towers located outside the Center, south of the Radio Telescope Site. Adjacent to this new tower is a small building (Figure 6, Item 18).

The two probable DRUM HEAD radars have been removed from the mounds. A concrete pad and an object resembling a pedestal have been constructed on the westernmost mound. It appears very similar to the pedestal supporting the five-helix array adjacent to the large control building. The area has been landscaped and numerous trees are discernible around the control building. Additional earth scars are observed between the large control building and the U-shaped building at the Radio Telescope Site.

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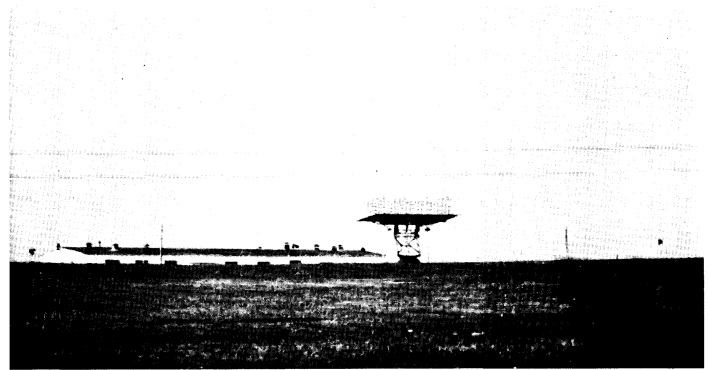
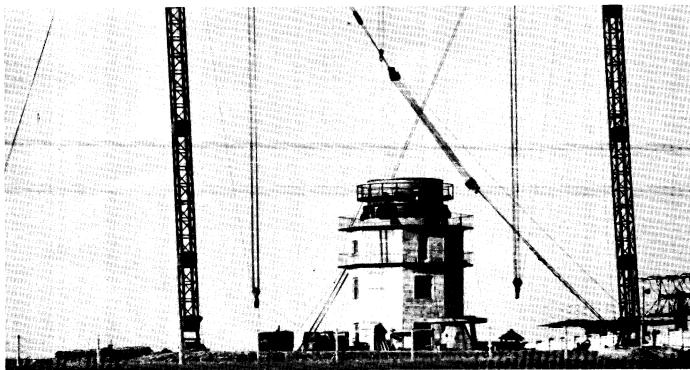
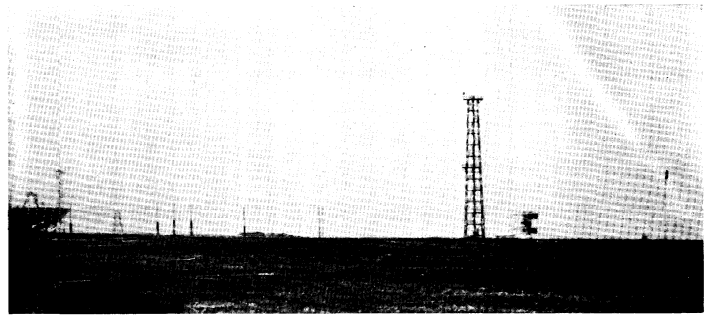
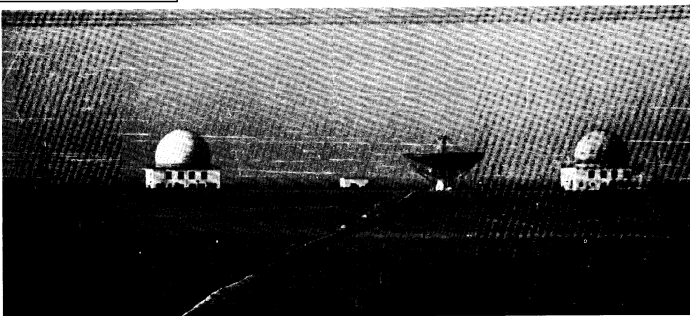


FIG-7 SIMFEROPOL SPACE TRACKING AND COMMUNICATIONS CENTER, USSR SELECTED GROUND PHOTOS, JUN 1965

### HIGH FREQUENCY COMMUNICATIONS FACILITY

On coverages of [redacted] and [redacted] the high frequency communications facility was not discernible due to the poor quality of the photographic image. It was visible as early as [redacted] but identification was very tenuous due to the small scale of photography.

The first good coverage of the installation was in [redacted]. The two large rhombic antennas (Figure 5, Items B and C) were identified at that time in NPTG R-293/64, and are paired for day/night operation. But, due to an incomplete rhombic signature, the subsequently identified nine rhombic antennas (Items D-L) were misidentified as fishbone receiving antennas. A control building (Item 19) is located

at the focal point of a fan formed by the nine small rhombic antennas. This control building is separately secured by a fence. There are no cooling facilities discernible, however a cooling pond is located nearby at the FLIM FIAM station and, although no connection is visible, it could be used by both facilities.

[redacted] provided much better photography of this facility than that of the preceding mission. At this time, [redacted] the nine small rhombic antennas were readily discernible (Figure 6, Items D-L). A dissipation/feeder line extends along the entire length of the major axis of each rhombic, in contrast to the usual distance of only one-half the length of an end-fed rhombic antenna.

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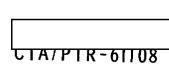
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It should be noted that, although the orientation of the rhombic antennas are listed in Table 2 with only one azimuth, a back azimuth for some of these transmitting antennas would cover portions of the Mediterranean Sea, where Soviet instrumentation ships operate.

Also located within this facility are two other control buildings (Figure 6, Buildings 109 and 110). Two helical antennas are on the roof of the former. In addition, three other buildings and three probable communications vans are located within this facility (Figure 6, Items 20, 21, and 112).

#### CENTER SUPPORT AREA

This area is the largest single entity at the Center. A lengthy narrative development is not provided as this area can best be studied by using the four line drawings (Figures 3-6) in conjunction with Table 1. These adequately present the evolution of the support area within the previously stated time limitations.

may have been present earlier but not discernible due to the small scale of the [redacted] photography.

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Many of the smaller structures initially identified on [redacted]

In addition to normal supporting elements, several helical antennas and two small dish antennas are located within this area. These will be discussed in more detail under Miscellaneous Activity, as they are not pertinent to the major support function of this area.

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#### PROBABLE SATELLITE TELEMETRY COLLECTION SITE

The probable Satellite Telemetry Collection Site is located at the eastern extremity of the Center and existed at least in part, before [redacted]

[redacted] revealed several newly identified items at this site. Two buildings (Figure 5, Items 121 and 123) are new since [redacted] and two 8-helix arrays and two 14-helix arrays are newly identified. These arrays are located on a flat, rectangular base, mounted on a masonry pedestal.

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At that time, the only structures discernible were four buildings and the wall located on the north side of the site (Figure 3, Items 117-120). Construction status could not be determined on this coverage due to the poor quality of the photography.

The northern and eastern walls around the site appear to be complete.

By [redacted] some activity had taken place at the location of the four helix antennas (Figure 4), but actual identification was not possible at that time.

In [redacted] two new buildings were identified (Figure 6, Items 116 and 122). No other new facilities were observed within the walled area. An area of recent development, probably the most significant new activity identified at the Center, is located adjacent to and outside of the eastern wall. This construction activity consists of a high masonry control building or pedestal, several structural panels for a large radio telescope, a structural crane identical to the one previously seen at the Radio Telescope Site in [redacted] and several unidentified items, probably some type of construction materials. This activity is situated on a concrete pad approximately 310 by 175 feet and is new since [redacted]. Footings for the structural crane can be discerned on that coverage. This radio telescope will probably be at least as large as the existing one previously described.

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The wall at the eastern side of the site was evident but no other activity was observed in [redacted]

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A correlation of ground photography obtained in 1963 and [redacted] photography dated [redacted]

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#### INTERFEROMETER SITE

The interferometer was not present in [redacted]

In [redacted] the baselines appear to be basically complete, however, no antenna elements were observed (Figure 6). The building has been completely buried and the fence now completely encloses the site. Construction appears to have progressed very slowly on this interferometer when compared to similar installations elsewhere in the USSR.

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It was observed under construction in [redacted] At that time, the earthen foundations for the baselines were under construction as was a building near the center of the baselines (Figure 5, Item 129). This building is being constructed below the ground level and will eventually be buried. A fence around the site is partially complete.

#### MISCELLANEOUS ACTIVITY

One of the most significant items in the current expansion at the Center is the construction of two 16-helix antennas since [redacted] (Figure 6, near Items 8 and 116). One of these antennas was observed on June 1965 ground photography (Figure 7). However, neither the ground photography nor the [redacted] coverage furnished sufficient information to allow a precise measurement of the individual helices comprising the antenna system.

adjacent to almost identical control buildings (Figure 6, Buildings 8 and 116). On the opposite side of each control building is located a probable pedestal mount for an additional antenna.

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These two antennas are located on flat, rectangular 30 by 25 feet "beds", and are

Each of these new 16-helix antennas is located near a radio telescope site, one near the older 100-foot dish and one near the radio telescope under construction adjacent to the Probable Satellite Telemetry Collection Site. No direct connection to these radio telescope sites can be identified at this time other than proximity.

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Two small dish antennas and two helix antennas are located within the Center Support Area. Also, two helix antennas are located atop a building (Figure 6, Item 109) in the High Frequency Communications Facility. These were identified on ground photography and finally precisely located on aerial photography. All are annotated on Figure 6.

Although power lines cannot be traced in their entirety, it is assumed that adequate power is supplied from a power plant which is located between this Center and the city of Simferopol.

#### REFERENCES

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##### MAPS AND CHARTS

ACIC. US Air Target Chart, Series 200, Sheet 250-20HL, 4th edition, September 1962  
Scale 1:200,000 (SECRET)

##### DOCUMENTS

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USSR, February 1964 (TOP SECRET)

NPIC. R-293/64, Earth Satellite Tracking and Communication Center, Simferopol,  
USSR, March 1964 (TOP SECRET)

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<u>Agency</u>	<u>Accession Number</u>	<u>Date</u>	<u>Classification</u>
CIA		9 Apr 63	SECRET
DOD		24 Jun 65	SECRET

##### REQUIREMENT

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CIA/IAD PROJECT

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TABLE I - MENSURATION TABLE FOR ALL BUILDINGS

Building Number	Length	Width	Height	Square Feet	Cubic Feet	Description Number Floors	Probable Function
1	130	95	-	-	-	1	U-Shaped Control Building
2	25	25	-	625	-	1	Support
3	70	30	-	2100	-	1	Support
4	25	25	-	625	-	1	Support
5	120	40	-	4800	-	1	Support/Maintenance
6	110	45	-	4950	-	1	Storage
7	40	30	-	1200	-	1	Probable Storage
8	120	50	-	6000	-	1	Control/Support
9	55	50	-	2750	-	2	Unidentified
10	40	15	-	600	-	2	Unidentified
11				4200	100,800	2	Tracking Building
12				4200	100,800	2	Tracking Building
13	20	20	-	400	-	1	Support
14	(Too Small for Accurate Measurements)						Control
15	100	40	-	4000	-	1	Control
16				340	-	1	Control
17				340	-	1	Control
18	25	20	-	500	-	1	Control
19	55	40	-	2200	-	1	Transmitter Building
20	55	40	-	2200	-	1	Control
21	55	40	-	2200	-	1	Control
22	55	40	-	2200	-	1	Control
23	55	40	-	2200	-	1	Control
24	150	50	15	7500	112,500	1	Probable Vehicle Maintenance
25	40	40	-	1600	-	1	Support
26	15	15	-	225	-	1	Unidentified
27	240	25	15	6000	90,000	1	Storage
28	115	25	15	2875	43,125	1	Storage
29	115	25	15	2875	43,125	1	Storage
30	90	25	-	2250	-	1	Building removed, Foundation only
31	90	25	-	2250	-	1	Support/Storage
32	70	20	-	1400	-	1	Support/Storage
33	100	40	-	4000	-	1	Storage
34	30	25	-	-	-	1	Support/Storage
35	100	40	-	4000	-	1	Storage
36	(Building Under Construction - Undetermined Size)						
37	(Too Small to Measure Accurately)						Unidentified
38	25	15	-	375	-	1	Unidentified
39	20	10	-	200	-	1	Unidentified
40	60	50	-	3000	-	?	Building Under Construction
41	(Approx) 130 & 45	(Approx) 45	-	9000	-	?	L-Shaped Probable Heat Plant
42	(Building Removed Since 130 55 30)						
43	130	55	30	7150	-	1 to 3	Probable Varying-Story Gymnasium
44	(Delete (No Building) Building Dismantled Since 55 30 - 1650)						Duplex-Type Dwelling
45	(Too Small for Accurate Measurement)						Unidentified
46	(Too Small for Accurate Measurement)						Unidentified
47	25	25	-	625	-	1	Possible Single Family Dwelling
48							
49	55	30	-	1650	-	1	Duplex-Type Dwelling
50	25	25	-	625	-	1	Possible Single Family Dwelling
51	35	35	-	1225	-	1	Unidentified
52	20	10	-	200	-	1	Unidentified
53	135	40	-	5400	-	1	Multi-Family Dwelling
54	25	25	-	625	-	1	Possible Single Family Dwelling
55	25	25	-	625	-	1	Unidentified
56	130	45	-	5850	-	1	Barracks
57	130	45	-	5850	-	1	Barracks
58	25	25	-	625	-	1	Possible Single Family Dwelling
59	115	40	-	4600	-	1	Barracks
60	30	30	-	600*	-	1	Support
61	20	20	-	400	-	1	Support
62	20	20	-	400	-	1	Support
63	(Too Small to be Measured Accurately)						Unidentified
64	85	20	-	1700	-	1	Possible Barracks
65	45	30	-	1350	-	1	Probable Storage
66	70	55	-	3850	-	1	Probable Vehicle Maintenance
67	90	45	-	4050	-	1	Probable Vehicle Maintenance
68	135	50	25	6750	168,750	2	Apartment-Type Dwelling
69	15	15	-	225	-	1	Probable Guard Shack
70	50	30	-	1500	-	1	Probable Heating Plant
71	(Could not be Accurately Measured)						Unidentified
72	110	45	-	4950	-	1	Possible Barracks
73	(Building Under Construction - Could Not Measure)						Unidentified
74	(Could not be Accurately Measured)						Unidentified
75	130	45	-	5850	-	1	Barracks
76	130	45	-	5850	-	1	Barracks
77	130	45	-	5850	-	1	Barracks
78	130	45	-	5850	-	1	Barracks
79	215	30	-	6450	-	1	Barracks
80	130	35	-	4550	-	1	Barracks
81	115	50	20	5750	115,000	2	Apartment-Type Dwelling
82	115	115	20	5750	115,000	2	Apartment-Type Dwelling
83	115	115	20	5750	115,000	2	Apartment-Type Dwelling
84	95	40	-	3800	-	1	Apartment-Type Dwelling
85	125	50	-	6250	-	1	Apartment-Type Dwelling
86	65	40	-	2600	-	2	Apartment-Type Dwelling
87	55	35	-	1925	-	1	Unidentified
88	175	40	35	7000	245,000	3 or 4	Apartment-Type Dwelling
89	110	40	20	4400	88,000	2	Apartment-Type Dwelling
90	110	40	20	4400	88,000	2	Apartment-Type Dwelling
91	110	40	20	4400	88,000	2	Apartment-Type Dwelling
92	110	40	20	4400	88,000	2	Apartment-Type Dwelling
93	110	40	20	4400	88,000	2	Apartment-Type Dwelling
94	110	40	20	4400	88,000	2	Apartment-Type Dwelling
95	110	40	20	4400	88,000	2	Apartment-Type Dwelling
96	110	40	20	4400	88,000	2	Apartment-Type Dwelling
97	175	45	45	7875	354,375	4 or 5	Apartment-Type Dwelling
98	85	10	-	850	-	1	Utility Building
99	50	30	-	1500	-	1	Unidentified
100	(Too Small to Measure Accurately)						

\* Building is L-Shaped with 30 by 30 feet being overall length and width  
 \*\* Irregular shapes make square footage approximate

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TABLE I - continued

Building Number	Length	Width	Height	Square Feet	Cubic Feet	Description Number	Probable Function	Building Number	Length	Width	Height	Square Feet	Cubic Feet	Description Number	Probable Function
101	(Too Small to Measure Accurately)							115	90	25	-	2250	-	1 & 2	Unidentified (Split-Level)
102	85	10	-	850	-	1	Utility Building	116	110	50	-	5500	-	1	Control Building
103	45	25	-	1125	-	1	Utility Building	117	30	20	-	600	-	1	Support
104	45	25	-	1125	-	1	Utility Building	118	30	30	-	900	-	1	Support
105	45	25	-	1125	-	1	Utility Building	119	105	45	-	4725	-	1	Control Building
106	40	40	15	1600	24,000	1	Probable Duplex-Type Dwelling	120	35	30	-	1050	-	1	Support
107	40	40	15	1600	24,000	1	Probable Duplex-Type Dwelling	121	80	30	-	2400	-	1	Storage
108	40	15	-	600	-	1	Unidentified	122	50	25	-	1250	-	1	Storage
109	100	40	-	4000	-	1	Control Building	123	20	20	-	400	-	1	Probable Guard Shack
110	70	15	-	1050	-	1	Possible Control Building	124	30	20	-	600	-	1	Possible Maintenance Shed
111	125	50	-	6250	-	2	Probable Apartment-Type Under Construction (Prob)	125	25	25	-	625	-	-	Multi-Story Unidentified
112	60	40	-	2400	-	1	Unidentified	126	(Building Under Construction - Could not Determine Measurements)						
113	20	20	-	400	-	1	Guard Shack	127	80	30	-	2400	-	1	Storage
114	175	130	-	11,225***	-	2	Barracks/Admin Type	128	80	30	-	2400	-	1	Storage
								129	(Building Seen on Previous Photography, is now Earth Covered)						
								130****	180	50	30	9000	270,000	?	Apartment-Type Building
								130	55	40	25	2200	99,000	?	Apartment-Type Building

\*\*\* Building is U-Shaped with 175 by 130 feet being overall length and width  
\*\*\*\* Split-Level with Varying Exterior Dimensions

TABLE 2 - COMMUNICATIONS ANTENNAS AND RADIO TELESCOPE

Antenna Designator*	Type	Major Axis (Feet)	Minor Axis (Feet)	Diameter	Approximate Orientation	Possible Correspondence**
A	Radio Telescope			100 feet	[REDACTED]	-
B	Rhombic Antenna (Transmitting)	600	365	-	Azimuth 15 Degrees	Moscow
C	Rhombic Antenna (Transmitting)	355	220	-	Azimuth 15 Degrees	Moscow
D	Rhombic Antenna (Transmitting)	215	110	-	[REDACTED]	Ulan Ude, Golenki
E	Rhombic Antenna (Transmitting)	215	110	-	[REDACTED]	Khutor
F	Rhombic Antenna (Transmitting)	215	110	-	[REDACTED]	Moscow Area
G	Rhombic Antenna (Transmitting)	215	110	-	Azimuth 355 Degrees	Leningrad
H	Rhombic Antenna (Transmitting)	215	110	-	Azimuth 335 Degrees	Kiev, Riga
I	Rhombic Antenna (Transmitting)	215	110	-	Azimuth 320 Degrees	Vinnitsa
J	Rhombic Antenna (Transmitting)	215	110	-	Azimuth 300 Degrees	Prague, Czech.
K	Rhombic Antenna (Transmitting)	215	110	-	Azimuth 275 Degrees	Belgrad, Yugo.
L	Rhombic Antenna (Transmitting)	215	110	-	Azimuth 250 Degrees	Tirane, Alban.

\* Keyed to Figure  
\*\* Pertains to rhombic antennas only

\*\*\* Determined from [REDACTED] at 9 hours, 13 minutes, 47 seconds (GMT) on [REDACTED]

TOP SECRET [REDACTED]

25X1  
25X1

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